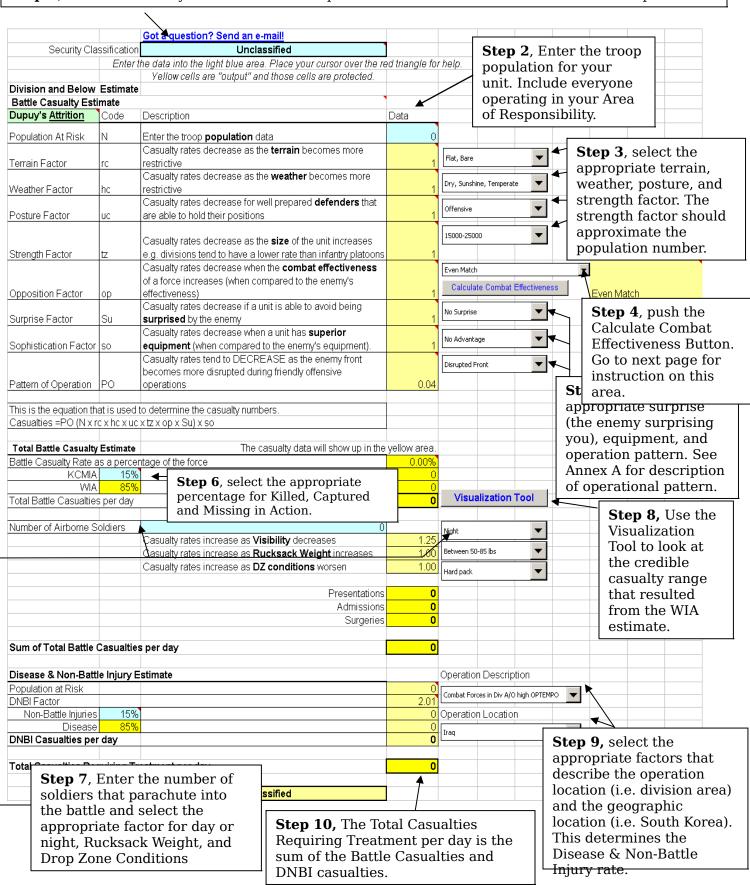
Division Estimator (WIA and DNBI)

Blue cells are user input areas, yellow cells are formulas and are locked so the user can't change them, green cells are information cells, and cells with red arrows in the corner have a "pop up" help window.

Step 1, enter the security classification. Don't process classified material on unclassified computers!



Combat Effectiveness Calculator

Step 1, Enter the number of battalions that will be involved in the fight by type of unit.

Step 2, Adjust the factors that are provided are for training purposes only, they are derived from CGSC Student Text 100-3. These factors must be updated with operational factors based on the Intelligence

Step 3, Enter the strength of the units that are involved in the fight.

Step 4, Repeat steps 1,2 & 3 for the enemy forces.

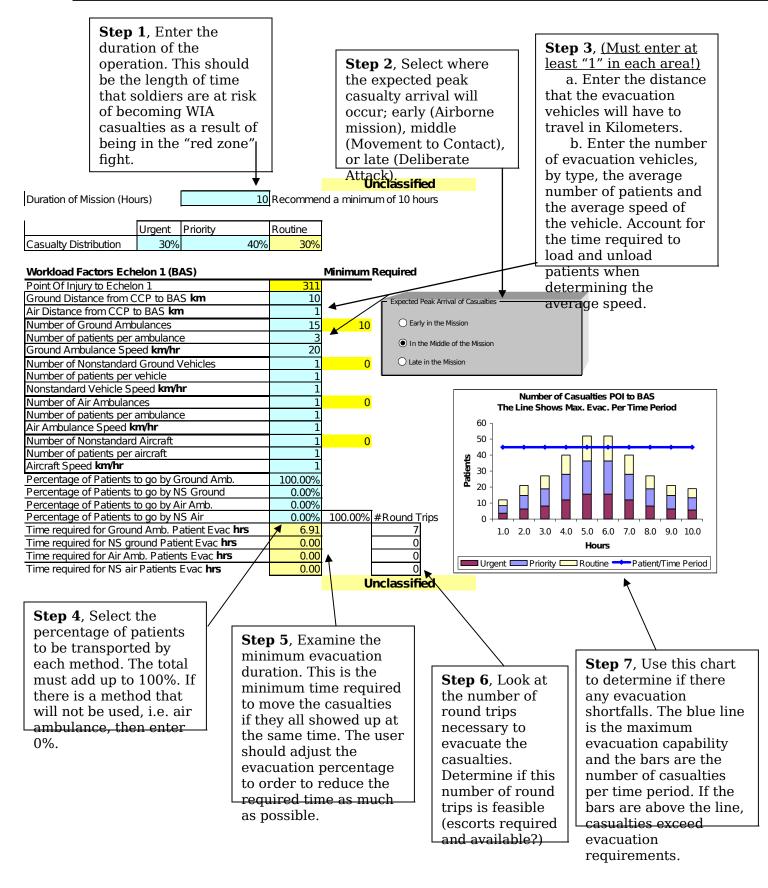
pe of unit.				on the In								
				sment of	friendi	·						
Friendly Forces	↓ eı	nemy	capabil	ities.		Enemy F	orces		/ /		*	
		▼	Cambat	_	Dolotivo					Carobat		Dalatiu
Unit Type	# of BNs	Factor	Combat	% Strength	Relative	Unit Type		# of BNs	Factor	Combat	% Strength	Relativ
•				_							_	
M1A1	0	1.19	0.00	100%	0.00	T72		0	0.50	0.00	100%	0.0
M1A2	2	1.21	2.42	100%	2.42	T80		1	0.77	0.77	100%	0.7
M2A1	1	1.00	1.00	100%	1.00	Indep. Ta	nk (T-80)	0	1.05	0.00	100%	0.0
							(1 00)					
M2A2	0		0.00	100%	0.00	BMP-1/2		0		0.00	100%	0.0
M3A1	0		0.00	100%	0.00	BMP-3		3	0.77	2.31	100%	2.3
M3A2	0	1.50	0.00	100%	0.00	BTR-50/6	iU	0	0.35	0.00	100%	0.0
Division Cav Sqn	0	2.60	0.00	100%	0.00	BTR-70/8		0	0.60	0.00	100%	0.0
l & Jufanto.	4	0.40	0.40	4000/	0.40	AT BN (B	RDM	0.5	4.00	0.50	4000/	0.5
Lt. Infantry	1	0.48	0.48	100%	0.48	w/AT-5)		0.5		0.50	100%	0.5
Airborne Infantry	0	0.73	0.00	100%	0.00	Lt. Infantry	/	0	0.42	0.00	100%	0.0
Air Assualt Infantry	0	0.70	0.00	100%	0.00	Airborne	Infantry	0	0.51	0.00	100%	0.0
Div Cav Sqd, Lt	0	0.70	0.00	100%	0.00	Air Assua	alt Infantry	0	0.42	0.00	100%	0.0
Attk Helo	0	0.70	0.00	10076	0.00	Attk Helo		- 0	0.42	0.00	100%	0.0
(AH-1/OH-58D)	0	2.10	0.00	100%	0.00	(Hokum/F	łavok)	0	2.70	0.00	100%	0.0
Attk Helo						Attk Helo						
(AH-64/OH-58D)	0	4.00	0.00	100%	0.00	(Hind-E)		0	2.05	0.00	100%	0.0
M102	0	0.80	0.00	100%	0.00	<u>2S1</u>		0	0.71	0.00	100%	0.0
M119	0	0.80	0.00	100%	0.00	2S3		0	0.85	0.00	100%	0.0
M109A3	0	1.00	0.00	100%	0.00	2S5		2	0.88	1.76	100%	1.7
M109A6	2	1.20	2.40	100%	2.40	2S7		0	1.02	0.00	100%	0.0
M198	0	0.80	0.00	100%	0.00	BM21		1	2.94	2.94	100%	2.9
MLRS	0.25		1.15	100%	1.15	BM22		0		0.00	100%	0.0
ATACMS (B-2)	0			100%	0.00	2A65		0		0.00	100%	0.0
ATACMS (B-1)	0		0.00	100%	0.00		A45M AT	0		0.00	100%	0.0
Division ADA	0	0.20	0.00	100%	0.00	9A52		0	4.50	0.00	100%	0.0
Patriot	0		0.00	100%	0.00	ZU23/SA	18	0		0.00	100%	0.0
Morale/Training/	Ť	0.00	0.00	10070	0.00	Morale/Tr			0.70	0.00	10078	0.0
Discipline		3			1.00	Discipline			3.00			1.0
		4			4.00							4.0
Defense Factor		1	7.45		1.00	Defense I			1	0.00		1.0
Total Friendly			7.45		7.45	Total En	emy			8.28		8.2
	0.00			4.								
	0.90 Select this factor on			or on the es Even Matcl								
				A A								
E-t	-664 . "		<u> </u>									
Enter the number												
that will be invol					Return t	o Estimator						
Combat Power Fa												
General Staff Colle												
Combat Power												
reflect different equ		heck wit	th the Intel									
	Officer!).			Star		omino the ret	io of fr	on dl				
						amine the rat						
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				Esti		button to ret						

estimator.

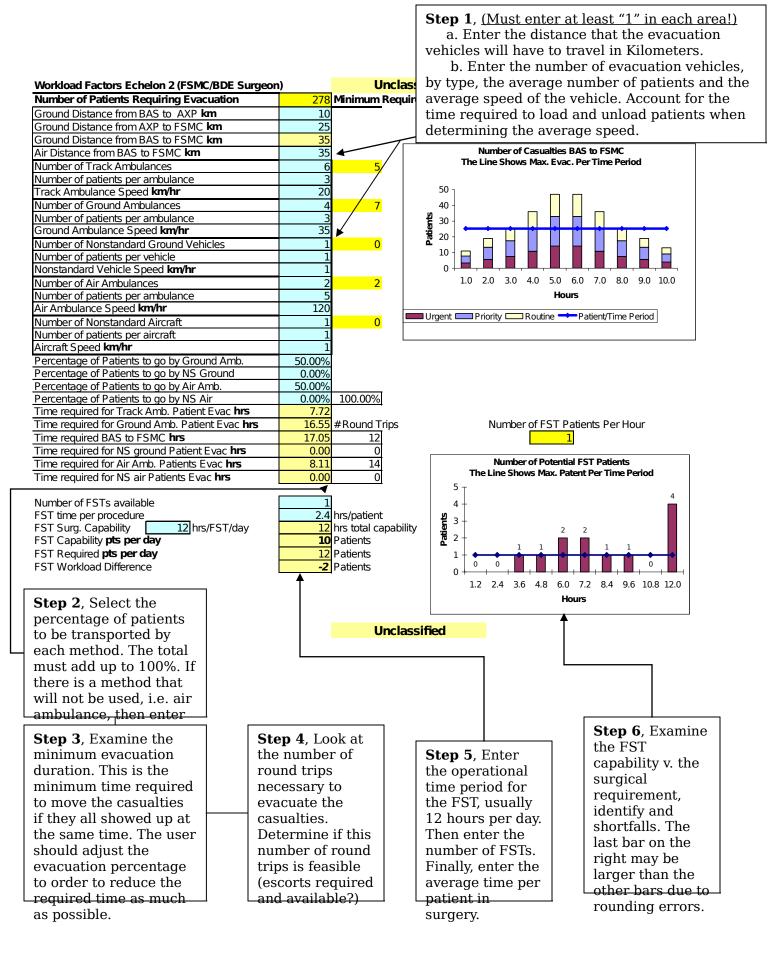
Patient Flow Worksheet

			Unclassified	
	Casual	ty Flow		
Total number of Division patients r	105			
Total number of Corps patients red	0			
Total number of EAC patients requ	Jiring treat	ment		0
				_
Tatal number of nationts requir	ina troatr	nont.		105
Total number of patients requir	ing treati	lient		105
Detiant Flam				
Patient Flow	405	D - 6 14 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Level 1 Arrivals		Default		
Level 1 RTD DNBI		10.00%		
Level 1 RTD WIA	10	15.00%	OT WIA	
Level 1 Evacuated to Level 2	92	05.000/	of row cining DNDI	
Level 2 RTD DNBI Level 2 RTD WIA	12		of remaining DNBI	
Level 2 FST cases	9	15.00%	1	
Level 2 Evacuated to Level 3	51	13.00%	OI WIA	
Corps Level 2 Treated	0			Chara 1 Adiana
Corps Level 2 RTD DNBI	0	85.00%	of remaining DNBI	Step 1, Adjust the RTD values
Corps Level 2 RTD WIA	0	25.00%	_	at level 1, 2 an
Corps Level 2 Evac. To Level 3	Ŏ	20.0070		3 as a result of
Level 3 Admissions	51			the mission analysis.
Level 3 RTD DNBI	2	45.00%	of remaining DNBI	dialy 515.
Level 3 RTD WIA	5	10.00%		
Level 3 Surgical cases	23			
Level 3 Evacuated to Level 4	44			
EAC Level 2 Treated	O			
EAC Level 2 RTD DNBI	0	80.00%	of remaining DNBI	
EAC Level 3 RTD WIA	0	0.00%		
EAC Level 2 Evac. To Level 4	0			
Level 4 Admissions	44			
Level 4 RTD	0		of remaining DNBI	
Level 4 RTD WIA	0	0.00%		
Level 4 Surgical cases	0	80.00%	of WIA	
Level 4 Evacuated	44			
			Unclassified	

Battalion Aid Station Workload Estim



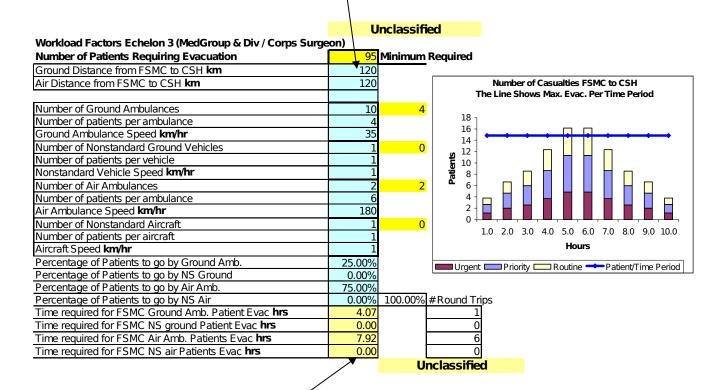
Medical Company Workload Estimate



Combat Support Hospital Workload Es



- a. Enter the distance that the evacuation vehicles will have to travel in Kilometers.
- b. Enter the number of evacuation vehicles, by type, the average number of patients and the average speed of the vehicle. Account for the time required to load and unload patients when determining the average speed.



Step 2, Select the percentage of patients to be transported by each method. The total must add up to 100%. If there is a method that will not be used, i.e. air ambulance, then enter

Step 3, Examine the minimum evacuation duration. This is the minimum time required to move the casualties if they all showed up at the same time. The user should adjust the evacuation percentage to order to reduce the required time as much

Step 4, Look at the number of round trips necessary to evacuate the casualties. Determine if this number of round trips is feasible (escorts required and available?)

Medical Supply (Class VIII) Estimat

Step 1, Enter the number of patients that can be treated using one Trauma Treatment Set, Sick Call Set, and/or Forward Surgical Team Set. The more patients that can be treated per set, the less resupply that will be required.

Number of Patients Treated per Trauma Treatment Medical Equipment Set Number of Patients Treated per Sick Call Medical Equipment Set Number of Patients Treated per Forward Surgical Team Set Unit WIA/NBI pts Ibs of Class VIII MRS Trauma Treatment Division Echelon I 172 11 lbs/pt 1883 4.30 Division Echelon II 172 11 lbs/pt 1883 4.30	40 40 30
Number of Patients Treated per Forward Surgical Team Set Unit WIA/NBI pts Ibs of Class VIII MRS Trauma Treatment Division Echelon I 172 11 Ibs/pt 1883 4.30	
Unit WIA/NBI pts Ibs of Class VIII MRS Trauma Treatment Division Echelon I 172 11 Ibs/pt 1883 4.30	30
Unit WIA/NBI pts Ibs of Class VIII MRS Trauma Treatment Division Echelon I 172 11 Ibs/pt 1883 4.30	
Division Echelon I 172 11 lbs/pt 1883 4.30	
Division Echelon II 172 11 lbs/pt 1883 4.30	
Corps Echelon II 0 11 lbs/pt 0 0.00	
EAC Echelon II 0 11 lbs/pt 0 0.00	
8.60	
Unit Disease pts Ibs of Class VIII MRS Sick Call	
Division Echelon I 8 5 lbs/pt 38 0.20	
Division Echelon II 7 5 lbs/pt 33 0.18	
Corps Echelon II 0 5 lbs/pt 0 0.00	
EAC Echelon II 0 5 lbs/pt 0 0.00	
0.38	
Unit WIA/NBI pts Ibs of Class VIII	
Unit WIA/NBI pts Ibs of Class VIII FST, Div. Level 26 73 Ibs/pt 1898	
F51, Div. Level 20 /3 lb5/pt 1090	
FST/Ech II Blood WIA/NBI pts Units of Blood Group Units Re	- equired
Red Blood Cells 172 47.70 units/cpt 82 0+ 70	2quii o u
0- 12	
Total Weight (st)	
0.96 Division Echelon I	
0.96 Division Echelon II	
0.95 FST	
0.00 Corps Echelon II	
0.00 EAC Echelon II	
0.08 Blood, Ice, Administration Sets & Insulated Shipping Container	
2.95 Total Weight (st)	

Step 2, Enter the units of blood per patient that will be required. A study conducted by the International Committee of the Red Cross recommends 47.7 units per one hundred patients for casualties treated by a surgical team. This study was published in the British Journal of Anesthesia, 1992; 68: 221-223.

Step 3, The total short tons of class VIII required to support this patient load is provided in this area.

Patient Accumulation Worksheet

This worksheet is an attempt to show the impact of various lengths of stay on

Step 1, Enter the average length of stay for patients. This factor should take into account the evacuation policy and the evacuation delay. It is usually between 3 and 5 days.

+							Unclassified		
3	< Enter the number of days for the Evacuation Delay I								
	Admissions	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
Day 1	0	0	0	0	0	0	0	0	0
Day 2	0		0	0	0	0	0	0	0
Day 3	0			0	0	0	0	0	0
Day 4	0				0	0	0	0	0
Day 5	0					0	0	0	0
Day 6	0						0	0	0
Day 7	0							0	0
Day 8	0								0
Day 9	0								
Day 10	0								
Day 11	0								
Day 12	0								
Day 13	0								
Day 14	0								
^	Daily Census	0	0	0	0	0	0	0	0
Hospital Capacity		3	3	3	3	3	3	3	3

Step 2, Manually input other days admissions. These should be done on separate Workbooks. The daily census numbers reflect the total bed requirement over time. The hospital capacity numbers come from the Workload Worksheet.